



**P/N 71221024HKR  
1967-69 GM F-Body Camaro with DSE Front Subframe  
LT1/LT4 Engine Swap  
Engine Mount Bracket Kit**

**Installation Instructions**



Thank you for choosing to use this Hooker™ Engine mount bracket kit as part of your LT engine swap project. These brackets are part of the most comprehensively engineered system of mounting components, headers and exhaust systems available for this application. The entire Hooker™ swap system is designed to decrease your total swap installation effort and cost while increasing the engineered quality of your vehicle and compatibility of these components with other popular aftermarket components.

**IMPORTANT DESIGN AND INSTALLATION INFORMATION:**

This engine mount bracket kit is designed as part of a fully-engineered fifth generation LT Engine swap mounting system for GM 1st-gen Camaro using Detroit Speed and Engineering (DSE) front Subframe and suspension components. It has been CAD designed and FEA validated to provide excellent structural strength and stiffness from its high-strength low-alloy steel construction. As a further benefit to the user, this bracket kit will accept OEM or popular aftermarket Small Block Chevy motor mount assemblies.

**COMPATIBILITY:**

This Engine mount bracket kit was specifically designed for compatibility with Hooker™ engine swap mounts and Hooker Blackheart headers and exhaust systems.

**Transmission Crossmember Kit** – Hooker Blackheart P/N 71222017HKR

**Engine Mount Assemblies** – Hooker Blackheart P/N 71221004HKR clamshell with 71221014HKR Black or 71221015HKR Red (Poly bushing) or GM P/N 22188497 Mount assembly

**Transmission Mount** – Anchor P/N 2379 or Prothane™ 7-1604 polyurethane

**Headers** - Hooker Blackheart P/N 70101356-RHKR, 70101358-RHKR, 70101359-RHKR, 70101360-RHKR, 70201318-RHKR, & P/N 70201319-RHKR

**Exhaust Systems** – Hooker Blackheart P/N 705013156-RHKR, 705013157-RHKR, 705013161-RHKR, & 705013162-RHKR

Visit the Holley website at [www.Holley.com](http://www.Holley.com) for a complete line of swap parts for your project

<b>Hardware:</b>					
<b>Qty.</b>	<b>P/N</b>	<b>Description</b>	<b>Qty.</b>	<b>P/N</b>	<b>Description</b>
12	505R39	3/8-16 X1" Flange Bolt	2	505R33	3/8-16 X 1/2" Flange Bolt
8	505R20	M10 x 30mm Flange bolt	1	199R11475	Instruction Sheet

## **INSTALLATION:**

### **PRE-INSTALLATION NOTES:**

This engine mount bracket kit contains the mounting brackets for the block and frame only! Please refer to the component compatibility reference above for the correct Engine mount assemblies to complete the installation.

### **BLOCK PLATES:**

1. Install the left and right Block plate using the supplied M10 x 30mm flange bolts, as shown in **Figure 1**.

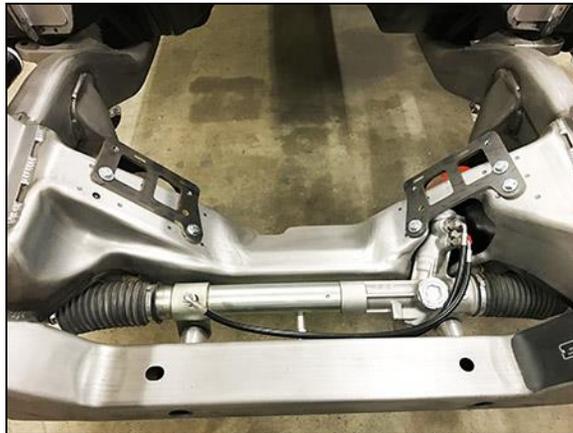
**NOTE:** Apply a small amount of Blue thread locking compound to the threads of the bolts before installation.



**Figure 1 (right side shown)**

### **FRAME PLATES:**

1. Install the left and right frame plate to the DSE subframe using the supplied 3/8-16 x1" flange bolts into the pre threaded holes as shown in **Figure 2**.



**Figure 2**

2. Using the frame plate as a template, drill a 5/16 hole at the locations shown in **Figure 3** and tap the hole using a 3/8-16 tap. Locations 3-6 are on the bottom of the vertical plate not shown in the photo. See **Figure 4** for reference.

**NOTE:** Use a 3/8 centering punch to locate the true center before drilling the subframe. This will prevent the hole from being drilled off center and make installing the bolt less of a challenge after the hole is tapped.

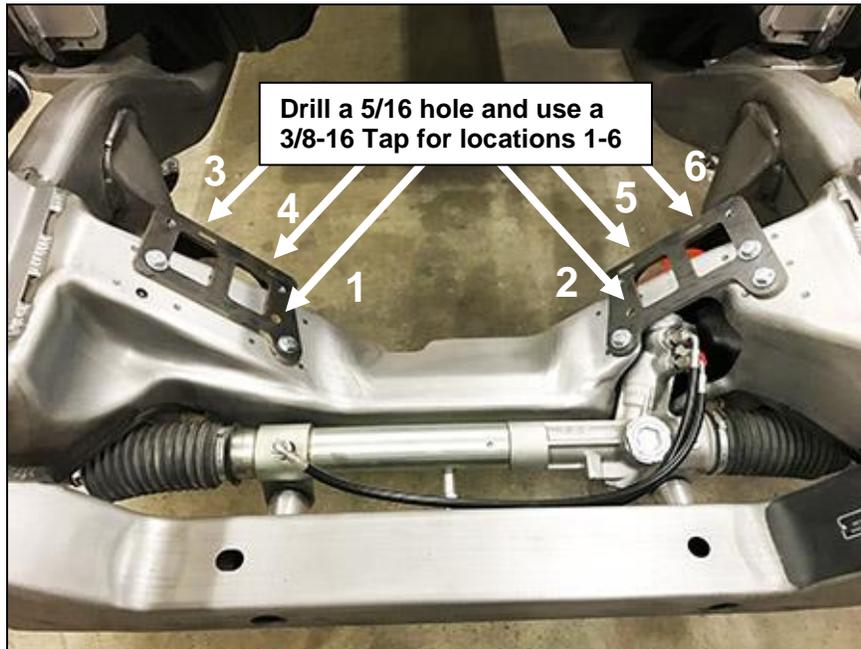


Figure 3



Figure 4 – Bolt holes 3-6 on vertical plate

3. Install a supplied 3/8-16 x 1" flange bolt in bolt holes 3-6 (Figure 4). Remove the bolts previously installed in holes 7-8 (Figure 2).
4. Install the engine mount assembly onto the frame plate and secure the mount to the frame plate using (x6) 3/8-16 x1" and (x2) 3/8-16 x1/2" flange bolts for the lower inside corner to prevent the bolt from bottoming on the frame (Figure 5).

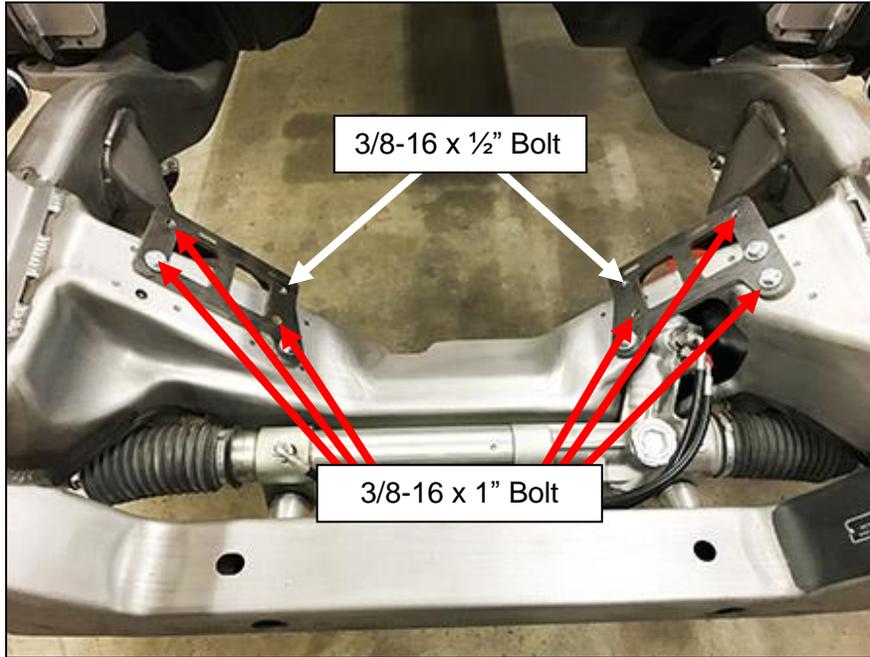


Figure 5

Any questions? Please contact Technical Service: 1-866-464-6553 or 270-781-9741. For online help, please refer to: [www.holley.com](http://www.holley.com).

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